

**Table 11. Employed doctoral scientists and engineers, by field of doctorate and sector of employment: 1999**

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Field of doctorate	Total	Universities and 4-year colleges	Other educational institutions	Private-for- profit	Self- employed	Private not- for-profit	Federal Government	State and local govern- ment	Other sector
[Number]									
All fields.....	553,360	240,080	15,710	185,720	30,400	27,540	37,250	14,870	1,790
Sciences.....	457,470	213,840	15,240	129,960	27,680	24,540	30,830	13,780	1,600
Computer and information sciences.....	9,600	3,650	100	5,090	170	230	270	80	S
Mathematical sciences.....	25,300	14,820	770	7,190	530	610	1,180	170	S
Biological and agricultural sciences.....	134,360	71,100	3,500	35,210	3,930	6,050	11,290	3,100	180
Agricultural/food sciences.....	16,560	7,350	450	5,890	770	390	1,410	260	S
Biological sciences.....	112,840	61,920	2,940	28,250	3,040	5,440	8,870	2,260	120
Environmental life sciences.....	4,970	1,830	110	1,070	110	210	1,010	590	S
Health sciences.....	19,310	10,760	410	4,060	990	1,560	1,090	430	S
Physical and related sciences.....	110,300	37,570	3,210	51,560	2,480	3,860	9,600	1,810	210
Chemistry except biochemistry.....	55,810	15,560	1,710	32,120	1,250	1,430	2,880	750	110
Earth/atmos/ocean sciences.....	15,940	7,450	490	4,000	540	620	2,220	620	S
Physics and astronomy.....	38,560	14,560	1,010	15,440	700	1,810	4,490	440	100
Social sciences.....	74,300	46,870	2,410	9,420	3,420	4,050	4,250	2,740	1,140
Economics.....	21,190	12,260	280	3,610	1,000	790	1,890	490	870
Political and related sciences.....	16,090	10,690	550	1,570	770	730	880	790	110
Sociology.....	13,420	9,470	470	1,080	420	1,070	520	380	S
Other social sciences.....	23,590	14,450	1,110	3,170	1,220	1,460	960	1,080	130
Psychology.....	84,300	29,070	4,830	17,420	16,160	8,190	3,140	5,460	S
Engineering.....	95,890	26,240	470	55,760	2,720	3,000	6,430	1,090	190
Aerospace/aeronautical engineering.....	4,360	1,340	S	2,100	230	160	520	S	S
Chemical engineering.....	12,520	2,270	60	9,010	290	370	450	60	S
Civil engineering.....	8,700	3,330	S	3,750	240	200	640	470	S
Electrical/computer engineering.....	25,980	6,600	80	16,280	760	750	1,430	70	S
Materials/metallurgical engineering.....	9,970	1,630	70	6,980	240	250	690	S	60
Mechanical engineering.....	12,780	3,490	S	7,750	320	530	600	S	S
Other engineering.....	21,580	7,590	190	9,890	630	730	2,090	410	S

See explanatory information and SOURCE at end of table.

**Table 11. Employed doctoral scientists and engineers, by field of doctorate and sector of employment: 1999**

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Field of doctorate	Total	Universities and 4-year colleges	Other educational institutions	Private-for- profit	Self- employed	Private not- for-profit	Federal Government	State and local govern- ment	Other sector
[Percent]									
All fields.....	100.0	43.4	2.8	33.6	5.5	5.0	6.7	2.7	0.3
Sciences.....	100.0	46.7	3.3	28.4	6.1	5.4	6.7	3.0	0.4
Computer and information sciences.....	100.0	38.0	1.1	53.0	1.8	2.3	2.9	0.9	S
Mathematical sciences.....	100.0	58.6	3.0	28.4	2.1	2.4	4.7	0.7	S
Biological and agricultural sciences.....	100.0	52.9	2.6	26.2	2.9	4.5	8.4	2.3	0.1
Agricultural/food sciences.....	100.0	44.4	2.7	35.6	4.7	2.4	8.5	1.5	S
Biological sciences.....	100.0	54.9	2.6	25.0	2.7	4.8	7.9	2.0	0.1
Environmental life sciences.....	100.0	36.8	2.3	21.5	2.3	4.3	20.3	11.8	S
Health sciences.....	100.0	55.7	2.1	21.0	5.1	8.1	5.6	2.2	S
Physical and related sciences.....	100.0	34.1	2.9	46.7	2.3	3.5	8.7	1.6	0.2
Chemistry except biochemistry.....	100.0	27.9	3.1	57.5	2.2	2.6	5.2	1.3	0.2
Earth/atmos/ocean sciences.....	100.0	46.8	3.1	25.1	3.4	3.9	13.9	3.9	S
Physics and astronomy.....	100.0	37.8	2.6	40.1	1.8	4.7	11.7	1.1	0.3
Social sciences.....	100.0	63.1	3.2	12.7	4.6	5.5	5.7	3.7	1.5
Economics.....	100.0	57.9	1.3	17.0	4.7	3.7	8.9	2.3	4.1
Political and related sciences.....	100.0	66.4	3.4	9.7	4.8	4.5	5.5	4.9	0.7
Sociology.....	100.0	70.6	3.5	8.0	3.1	8.0	3.8	2.8	S
Other social sciences.....	100.0	61.2	4.7	13.5	5.2	6.2	4.1	4.6	0.6
Psychology.....	100.0	34.5	5.7	20.7	19.2	9.7	3.7	6.5	S
Engineering.....	100.0	27.4	0.5	58.2	2.8	3.1	6.7	1.1	0.2
Aerospace/aeronautical engineering.....	100.0	30.6	S	48.1	5.3	3.6	11.9	S	S
Chemical engineering.....	100.0	18.1	0.5	72.0	2.3	3.0	3.6	0.4	S
Civil engineering.....	100.0	38.3	S	43.1	2.8	2.3	7.4	5.4	S
Electrical/computer engineering.....	100.0	25.4	0.3	62.6	2.9	2.9	5.5	0.3	S
Materials/metallurgical engineering.....	100.0	16.3	0.7	70.1	2.4	2.5	6.9	S	0.6
Mechanical engineering.....	100.0	27.3	S	60.7	2.5	4.2	4.7	S	S
Other engineering.....	100.0	35.2	0.9	45.9	2.9	3.4	9.7	1.9	S

**KEY:** S=Suppressed due to too few cases (fewer than 50 weighted cases).

**NOTES:** Numbers are rounded to nearest ten. Details may not add to total because of rounding.

**SOURCE:** National Science Foundation/Division of Science Resources Statistics, 1999 Survey of Doctorate Recipients